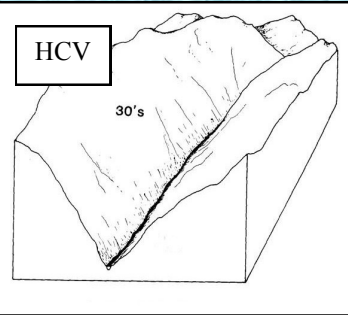
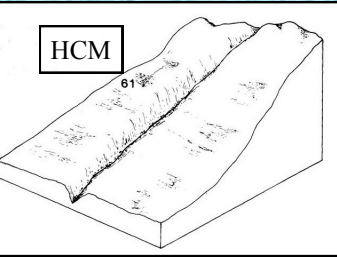
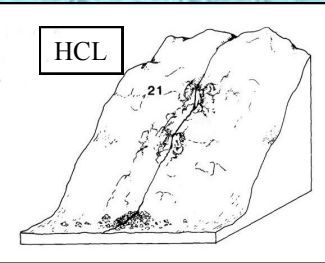
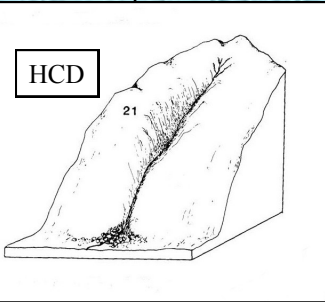


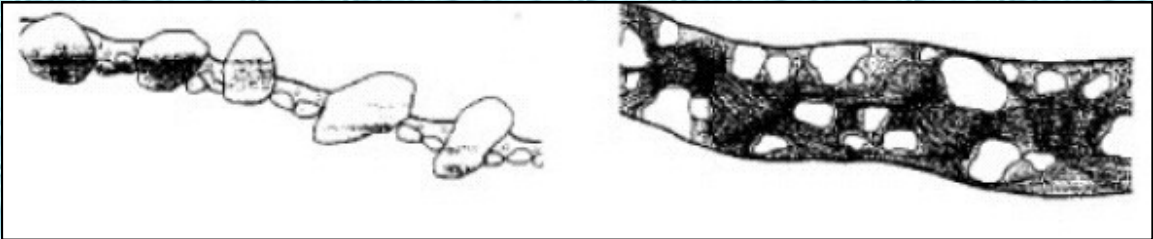
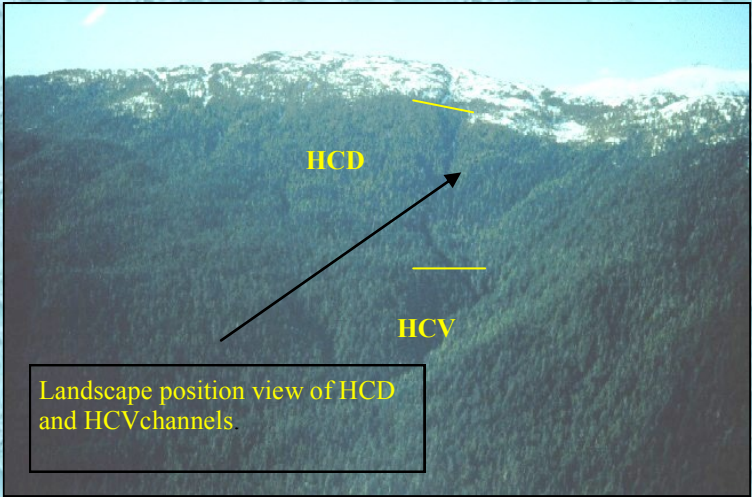
High Gradient Contained Process Group

- ♦ Stream Class III, and Class II at the lower end of mountainslopes.
- ♦ Sediment Transport function, sediment and large wood source
- ♦ Found on mountainslopes and hillslopes (30s and 60s landforms)
- ♦ Steep gradient, greater than 6%, cascade and step-pool channel forms
- ♦ Limited riparian area, essentially extends to side slope break
- ♦ Small drainage area , < 1 mi<sup>2</sup>



Channel Types:	Label:	Former label
Micro High Gradient Contained	HCO	HC0
High Gradient Contained Low Incision	HCL	HC1, HC2
High Gradient Contained Moderate Incision	HCM	HC5
High Gradient Contained Deep Incision	HCD	HC4, HC6. HC9
High Gradient Contained Upper Valley	HCV	HC3, HC8

Incision Designation	Depth Range
Low	Less than or equal to 2 meters
Moderate	2 to less than or equal 6 meters
Deep	Greater than 6 meters



Cascade channel longitudinal profile and planform.

Habitat variables for the HC Process

Variable	Percentile	HC		Variable	Percentile	HC
WD	25	8.3		RPD/CBW	25	0.06
	50	11.1			50	0.08
	75	13.0			75	0.09
TLWD/M	25	0.23		D50	25	36
	50	0.34			50	93
	75	0.48			75	135
TKWD/M	25	0.07		PLNGTH/M	25	0.17
	50	0.08			50	0.28
	75	0.27			75	0.44
POOLS/KM	25	50		REL_SUBMRG	25	3.3
	50	60			50	4.8
	75	100			75	11.4
POOL SPACE	25	2.4		POOL_SIZE	25	0.43
	50	3.4			50	0.59
	75	5.7			75	1.02

Riparian Management Concerns						
CT	Large Wood	Sediment Retention	Stream Bank Sensitivity	Sideslope Sensitivity	Flood Plain Protection	Culvert Fish Passage
HCO	No Data					
HCL	Low	Low	Low	Low	n/a	Low
HCM	Moderate	Low	Moderate	Low	n/a	Low
HCD	Moderate	Low	Moderate	High	n/a	Low
HCV	Moderate	Low	Moderate	Mod-High	n/a	Low

